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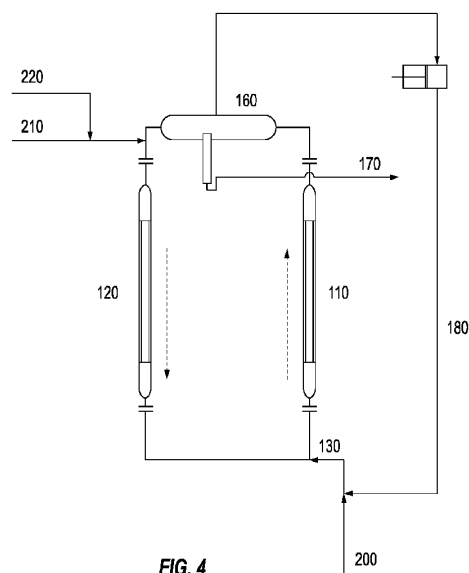
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(54) Title: A PROCESS FOR PRODUCING ALPHA OLEFINS



(57) Abstract: A process for producing alpha-olefins comprising: a) contacting an ethylene feed with an oligomerization catalyst system in an oligomerization reaction zone under oligomerization reaction conditions to produce a product stream comprising alpha-olefins; and b) cooling at least a portion of the reaction zone using a heat exchange medium having an inlet temperature and an outlet temperature wherein the catalyst system comprises a metal-ligand complex and a co-catalyst; the oligomerization reaction conditions comprise a reaction temperature of greater than 70 °C; and the difference between the reaction zone temperature and the inlet temperature of the heat exchange medium is from 0.5 to 15 °C.

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